

## CLAIMS

What is claimed is:

1. A computer-readable medium having software for editing a decomposed original video sequence, said decomposed original video sequence comprising one or more original camera-motion layers and zero or more original fixed-frame layers decomposed from an original video sequence, said software comprising:

code segments for editing at least one of said original camera-motion layers to obtain modified camera-motion layers such that each frame of a composite modified video sequence composed from said modified camera-motion layers and said original fixed-frame layers is obtained without editing each frame of said original video sequence, said editing comprising performing an edge operation to one of said original camera-motion layers.

2. A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for converting one of said original camera-motion layers to said original image;

code segments for performing said edge operation to said original image to obtain an edge image;

code segments for editing said edge image to obtain a modified image; and

code segments for converting said modified image to one of said modified camera-motion layers.

3. A computer-readable medium as in claim 2, wherein said code segments for editing  
said original camera-motion layers further comprise:

code segments for rectifying said original image prior to performing said edge operation;

and

5 code segments for rectifying said modified image prior to converting said modified  
image.

4. A computer-readable medium as in claim 1, wherein said code segments for editing  
said original camera-motion layers comprise:

code segments for inserting a portion into, deleting a portion from, or changing a portion  
of one of said original camera-motion layers to obtain one of said modified camera-motion  
layers.

5. A computer-readable medium as in claim 1, wherein said code segments for editing  
15 said original camera-motion layers comprise:

code segments for replacing one of said original camera-motion layers with another  
camera-motion layer to obtain one of said modified camera-motion layers.

6. A computer-readable medium as in claim 1, wherein said code segments for editing  
20 said original camera-motion layers comprise:

code segments for adding a video sequence to one of said original camera-motion layers  
to obtain one of said modified camera-motion layers.

7. A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding an animation sequence to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

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8. A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding a three-dimensional object to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

9. A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for adding a user-activated region to one of said original camera-motion layers to obtain one of said modified camera-motion layers.

10. A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise:

code segments for modifying an on/off time of one of said original camera-motion layers to obtain one of said modified camera-motion layers.

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11. A computer-readable medium as in claim 1, wherein said code segments for editing said original camera-motion layers comprise: